

KAESER Sigma Fluid FG 680

Revision date: 19.04.2023

Page 1 of 12

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

KAESER Sigma Fluid FG 680

Further trade names

KAESER FG-680 (FGH), 9.1464.0, 9.1465.0

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

cooling lubricant for rotary screw compressor.

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet**Supplier**

Company name: KAESER Kompressoren SE
Street: Carl- Kaeser- Strasse 26
Place: D-96450 Coburg
Telephone: +49(0)9561/640-0
Responsible Department: sdb.de@kaeser.com

1.4. Emergency telephone number:

Gif tinformationszentrum Nord Goettingen + 49 (0) 551 19240 (Poison Information Centre Goettingen)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements**Regulation (EC) No 1272/2008****Hazard statements**

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.
P501 Dispose of contents/container to local/regional/national/international regulations.

Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.
EUH208 Contains Amine Phosphate Compounds (NJTSR No.800983-5011P). May produce an allergic reaction.

79,8 % of the mixture consists of ingredient(s) of unknown acute toxicity (inhalation).

79,8 % of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).

79,8 % of the mixture consists of ingredient(s) of unknown acute toxicity (oral).

2.3. Other hazards

For information or further instructions, see also section 11 or 12.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Hazardous components**

KAESER Sigma Fluid FG 680

Revision date: 19.04.2023

Page 2 of 12

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	GHS Classification			
9003-29-6	Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)			>=10 - =<25 %
	Asp. Tox. 1; H304 EUH066			
	Amine Phosphate Compounds (NJTSR No.800983-5011P)			< 1 %
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1B, Aquatic Chronic 1; H302 H315 H318 H317 H410			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
9003-29-6		Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)	>=10 - =<25 %
	inhalation: LC50 = [$>19,17$] mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >10000 mg/kg		
		Amine Phosphate Compounds (NJTSR No.800983-5011P)	< 1 %
	oral: LD50 = 500 mg/kg		

Further Information

Product does not contain listed SVHC substances > 0.1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

Take off immediately all contaminated clothing. Rinse skin with water/shower. In case of skin irritation, consult a physician.

After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Never give anything by mouth to an unconscious person or a person with cramps. When in doubt or if symptoms are observed, get medical advice.

4.2. Most important symptoms and effects, both acute and delayed

After eye contact: No information available.

Inhalation: No information available.

Skin contact: Has de-greasing effect on the skin.

ingestion.: No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

In case of fire:

Carbon dioxide (CO₂)

Dry extinguishing powder

Foam

In case of major fire and large quantities:

Water spray jet

Unsuitable extinguishing media

High power water jet

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon dioxide (CO₂). Carbon monoxide. Nitrogen oxides (NO_x). Sulfur oxides.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. In case of fire and/or explosion do not breathe fumes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.

Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Avoid contact with skin, eyes and clothes.

For non-emergency personnel

Wear personal protection equipment (refer to section 8).

For emergency responders

No special precautionary measures are necessary.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Cover drains.

6.3. Methods and material for containment and cleaning up**For containment**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes.

KAESER Sigma Fluid FG 680

Revision date: 19.04.2023

Page 4 of 12

Wear personal protection equipment (refer to section 8).

Advice on protection against fire and explosion

Usual measures for fire prevention.

Further information on handling

General protection and hygiene measures: See section 8.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed and in a well-ventilated place.

Keep only in original container.

Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

Hints on joint storage

Do not store together with: Gas. Explosive hazardous substances. Oxidising substances (solid). Oxidising substances (liquid). Radioactive substances. Infectious substances.

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Protect against: UV-radiation/sunlight. Heat.

7.3. Specific end use(s)

refer to section 1.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Additional advice on limit values**

Air limit values:

Possibility of exposure to Aerosol (Mineral oil)

Limit value (TLV-TWA) = 5 mg/m³ - Source: ACGIH

Limit value (TLV-STEL) = 10 mg/m³ - Source: ACGIH

STEL: short-term exposure limits

TLV: Threshold Limiting Value

TWA: time weighted average

ACGIH: American Conference of Governmental Industrial Hygienists

Recommended monitoring procedures:

DIN-/EN-Norms: EN 689, EN 14042, EN 482

8.2. Exposure controls**Appropriate engineering controls**

Vapours / aerosols should be extracted by suction directly at point of origin.

Protective and hygiene measures

Always close containers tightly after the removal of product. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Take off contaminated clothing.

Do not put any product-impregnated cleaning rags into your trouser pockets.

Eye/face protection

Recommended eye protection articles: Eye glasses with side protection. EN 166

Hand protection

In case of prolonged or frequently repeated skin contact: Wear suitable gloves. EN 374

KAESER Sigma Fluid FG 680

Revision date: 19.04.2023

Page 5 of 12

Suitable material: NBR (Nitrile rubber).

Thickness of the glove material: 0,35 mm

Breakthrough time > 480 min.

Check leak tightness/impermeability prior to use. Breakthrough times and swelling properties of the material must be taken into consideration.

Skin protection

Protective clothing. DIN-/EN-Norms: 469

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

Generation/formation of aerosols

Recommended respiratory protection articles: Combination filtering device (EN 14387). type: AP-2/3

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state: Liquid
Colour: Clear, Yellow
Odour: Characteristic

pH-Value:

Test result	Test method
Not determined	Not applicable

Changes in the physical state

Melting point/freezing point:

Not determined	Not applicable
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Boiling point or initial boiling point and boiling range:

>371 °C	Not known
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Pour point:

-39 °C	Not applicable
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Flash point:

238 °C	Open Cup
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Sustaining combustion:

No data available	Not applicable
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Flammability

Solid/liquid:

Not applicable

Explosive properties

none

Lower explosion limits:

Not determined

Upper explosion limits:

Not determined

Auto-ignition temperature:

Not determined	Not applicable
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Self-ignition temperature

Gas:

Not determined

Decomposition temperature:

Not determined	Not applicable
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Oxidizing properties

none

KAESER Sigma Fluid FG 680

Revision date: 19.04.2023

Page 6 of 12

Vapour pressure: (at 25 °C)	0,10 hPa	Not known
Vapour pressure:		
Density (at 15 °C):	0,854 g/cm ³	Not known
Bulk density:	The product has not been tested.	Not applicable
Water solubility:	Immiscible	Not applicable
Solubility in other solvents		
Not determined		
Partition coefficient n-octanol/water:	The product has not been tested.	
Viscosity / dynamic:	Not determined	Not applicable
Viscosity / kinematic: (at 40 °C)	68 mm ² /s	Not known
Flow time:	Not determined	Not applicable
Relative vapour density:	Not determined	Not known
Evaporation rate:	Not determined	Not applicable
Solvent separation test:	Not determined	
Solvent content:	Not determined	

9.2. Other information

Solid content:	Not determined
Auto-ignition temperature: 365,6 °C	

SECTION 10: Stability and reactivity**10.1. Reactivity**

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Reacts with : Oxidizing agents, strong.

10.4. Conditions to avoid

UV-radiation/sunlight. Heat

10.5. Incompatible materials

Oxidizing agents, strong.

10.6. Hazardous decomposition productsCan be released in case of fire: Carbon dioxide (CO₂). Carbon monoxide. Nitrogen oxides (NO_x). Sulfur oxides.**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Toxicokinetics, metabolism and distribution**

No information available.

Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name	Exposure route	Dose	Species	Source	Method
9003-29-6	Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)					

KAESER Sigma Fluid FG 680

Revision date: 19.04.2023

Page 7 of 12

	oral	LD50 mg/kg	>10000	Rat	ECHA Dossier	OECD 401
	dermal	LD50 mg/kg	>2000	Rat	ECHA Dossier	OECD 402
	inhalation (4 h) vapour	LC50 mg/l	[>19,17]	Rat	ECHA Dossier	EPA OPPTS 870.1300
Amine Phosphate Compounds (NJTSR No.800983-5011P)						
	oral	LD50 mg/kg	500			

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene):

Serious eye damage/eye irritation:

Method: OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Species: Rabbit

Result / evaluation: Not an irritant. Literature information: ECHA Dossier

Sensitising effects

Contains Amine Phosphate Compounds (NJTSR No.800983-5011P). May produce an allergic reaction.

Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene):

Skin sensitisation:

Method: OECD Guideline 406

Species: Guinea pig

Result / evaluation: not sensitising. Literature information: ECHA Dossier

Amine Phosphate Compounds (NJTSR No.800983-5011P):

Skin sensitisation:

Method: -

Species: Mouse.

Result / evaluation: sensitising

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene):

In-vitro mutagenicity:

Method: OECD Guideline 471, OECD Guideline 473

Result: negative. Literature information: ECHA Dossier

In-vivo mutagenicity:

Method: OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Result: negative. Literature information: ECHA Dossier

Reproductive toxicity:

Method: OECD Guideline 421

Species: Rat. Exposure route: oral.

Result: NOAEL (P) = 1000 mg/kg. NOAEL (F1) = 1000 mg/kg. Literature information: ECHA Dossier

Developmental toxicity/teratogenicity:

Method: OECD Guideline 422

Species: Rat. Exposure route: oral.

Result: NOAEL > 1000 mg/kg. Literature information: ECHA Dossier

Amine Phosphate Compounds (NJTSR No.800983-5011P):

In-vitro mutagenicity:

Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Result / evaluation: negative.

STOT-single exposure

Based on available data, the classification criteria are not met.

KAESER Sigma Fluid FG 680

Revision date: 19.04.2023

Page 8 of 12

STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking.

Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene):

Subchronic oral toxicity:

Method: OECD Guideline 408

Species: Rat

Exposure time: 90 d.

Result: NOAEL \geq 1000 mg/kg; Literature information: ECHA Dossier

Subchronic inhalation toxicity:

Method: -

Species: Rat

Exposure time: OECD Guideline 413

Result / evaluation: NOEC = 1000 mg/m³. Literature information: ECHA Dossier

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

There are no data available on the preparation/mixture itself.

11.2. Information on other hazards
Endocrine disrupting properties

No information available.

SECTION 12: Ecological information
12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
9003-29-6	Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)					
	Acute algae toxicity	ErC50 >19,2 mg/l	72 h	Desmodesmus subspicatus (OECD 201)	ECHA Dossier	OECD 201
	Amine Phosphate Compounds (NJTSR No.800983-5011P)					
	Acute fish toxicity	LC50 18 mg/l	96 h	Fish		
	Acute algae toxicity	ErC50 1,9 mg/l	72 h	algae		
	Acute crustacea toxicity	EC50 6,8 mg/l	48 h	Daphnia		
	Algae toxicity	NOEC 0,1 mg/l	3 d	algae		

12.2. Persistence and degradability

Due to its low solubility in water the product is almost completely mechanically separated in biological sewage plants.

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
9003-29-6	Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)				
	OECD Guideline 310	93,9 %	28	ECHA Dossier	
	Easily biodegradable (concerning to the criteria of the OECD)				
	Amine Phosphate Compounds (NJTSR No.800983-5011P)				
	OECD 301B	9%	28		
	Not easily bio-degradable (according to OECD-criteria).				

12.3. Bioaccumulative potential
Partition coefficient n-octanol/water

KAESER Sigma Fluid FG 680

Revision date: 19.04.2023

Page 9 of 12

CAS No	Chemical name	Log Pow
9003-29-6	Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)	7,6-7,8
	Amine Phosphate Compounds (NJTSR No.800983-5011P)	7,6 - 7,8

BCF

CAS No	Chemical name	BCF	Species	Source
9003-29-6	Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)	920-3340	Carp	ECHA Dossier
	Amine Phosphate Compounds (NJTSR No.800983-5011P)	314 - 1882		

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Waste codes/waste designations according to (EWC) European Waste Catalogue

List of Wastes Code - residues/unused products

130206 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; synthetic engine, gear and lubricating oils; hazardous waste

List of Wastes Code - used product

130206 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; synthetic engine, gear and lubricating oils; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

KAESER Sigma Fluid FG 680

Revision date: 19.04.2023

Page 10 of 12

Land transport (ADR/RID)

14.1. UN number:	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name:	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es):	No dangerous good in sense of these transport regulations.
14.4. Packing group:	No dangerous good in sense of these transport regulations.

Inland waterways transport (ADN)

14.1. UN number:	UN 9006
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3. Transport hazard class(es):	9
14.4. Packing group:	-
Hazard label:	-
Classification code:	M12

Marine transport (IMDG)

14.1. UN number:	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name:	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es):	No dangerous good in sense of these transport regulations.
14.4. Packing group:	-

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name:	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es):	No dangerous good in sense of these transport regulations.
14.4. Packing group:	-

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:	No
Danger releasing substance:	Not relevant

14.6. Special precautions for user

See section 8.

14.7. Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3

2010/75/EU (VOC):	Not determined
2004/42/EC (VOC):	Not determined
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)

Additional information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].
REACH 1907/2006 appendix XVII: 3 (Mixtures)

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

Additional information

KAESER Sigma Fluid FG 680

Revision date: 19.04.2023

Page 11 of 12

Approval according to USDA H1/NSF, registry number 131273

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

SECTION 16: Other information**Changes**

Rev. 15,00: 01.06.2015. Initial release

Rev. 16,00: 24.11.2017. Changes in chapter: 1-16

Rev. 17,00: 26.09.2019. Changes in chapter: 2, 3, 8, 9, 11, 12, 15, 16

Rev. 18,00: 19.04.2023. Changes in chapter: 2, 3, 5, 6, 9, 10, 11, 12, 14, 15, 16

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging of substances and mixtures

DNEL: Derived No Effect Level

d: day(s)

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

ECHA: European Chemicals Agency

EWC: European Waste Catalogue

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

h: hour

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect concentration

NLP: No-Longer Polymers

N/A: not applicable

OECD: Organisation for Economic Co-operation and Development

PNEC: predicted no effect concentration

PBT: Persistent bioaccumulative toxic

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail

REACH: Registration, Evaluation, Authorisation of Chemicals

SVHC: substance of very high concern

TRGS: Technische Regeln für Gefahrstoffe

UN: United Nations

VOC: Volatile Organic Compounds

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H302

Harmful if swallowed.

KAESER Sigma Fluid FG 680

Revision date: 19.04.2023

Page 12 of 12

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains Amine Phosphate Compounds (NJTSR No.800983-5011P). May produce an allergic reaction.

Further Information

Classification according to Regulation (EC) No 1272/2008 [CLP] - Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated. and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)